

RIC 2004

Fire Protection, Session T14

Coordinating the **ANS Fire PRA Standard Development**

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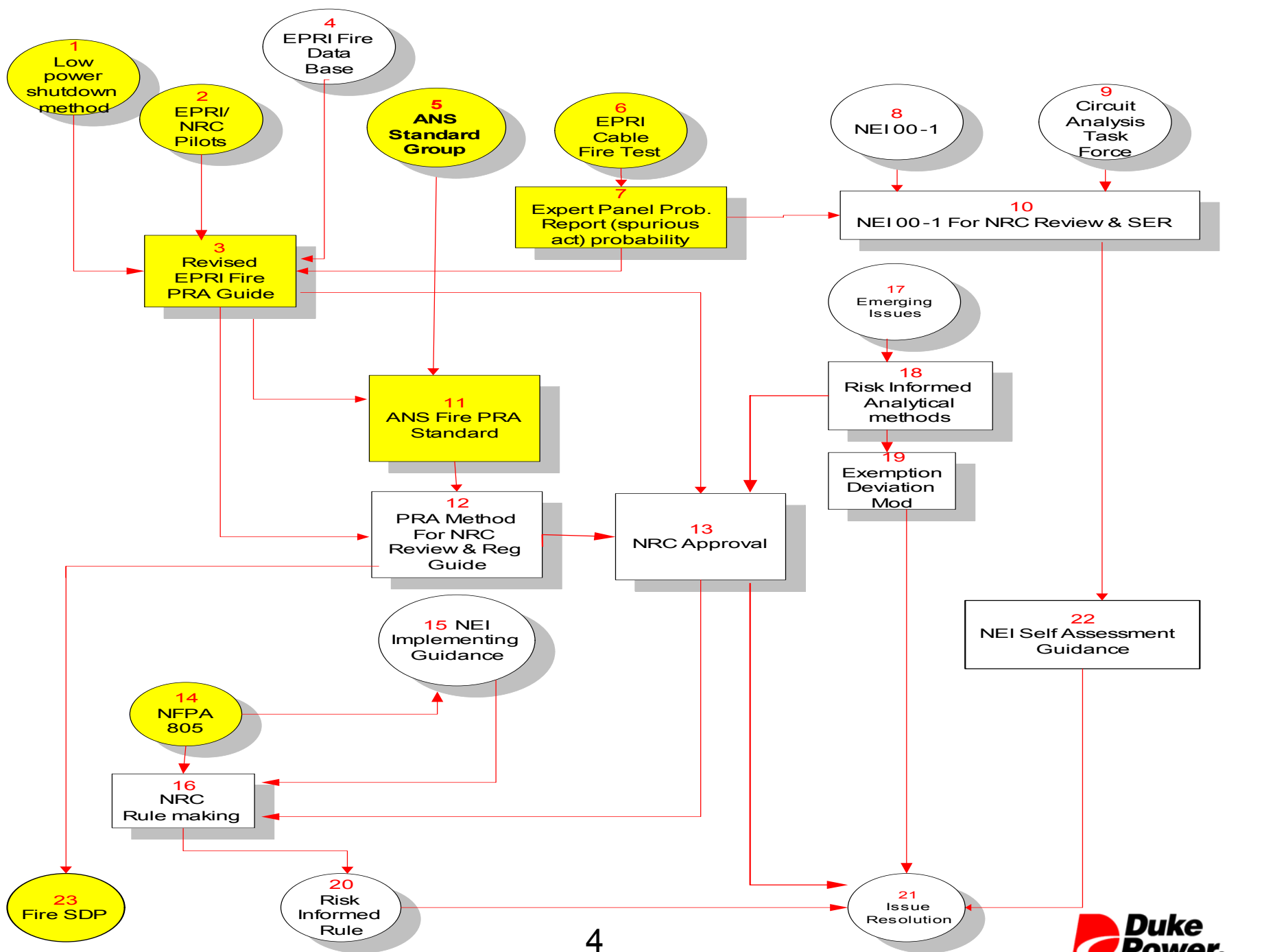
March 11, 2004

Coordinating the ANS Fire PRA Standard Development

- Why is the Fire PRA Standard Important?
- Other Inputs to the Fire PRA Standard
- Short Status
 - EPRI/NRC Fire Requantification
- ANS Fire PRA Writing Group Participants

Why is the Fire PRA Standard Important

- Fire Risk represents around 30% of the Core Damage Risk for an average plant.
 - Many plants report Fire Risk greater than the total for other internal events risk.
- Most Plants have a limited analysis of fire risk in response to the IPEEE process.
- Future Risk Applications and Issue Resolution will most likely require detailed Fire PRA.
 - Plant specific issue resolution for associated circuits/multiple hot shorts for issues not screened in Fire SDP or using NEI-00-01
 - Risk Applications affected by Fire PRA results
 - Plant-Specific Fire Issues, Phase III Fire Significance Determination Process



Other Inputs to the Fire PRA Standard

- Previous Fire PRA Methods:
 - FIVE/EPRI Fire PRA Methods
- EPRI Fire Testing and NEI-00-01: Probability for Spurious Operation.
 - This is included in the Requantification Project.
- EPRI and NRC Fire Modeling Projects

Status of ANS Fire PRA Standard

- Writing Team Selected
- Initial/Generic Standard Sections written
 - Similar to ANS External Events Standard
- Writing of Detailed Sections has begun, awaiting Fire PRA Requantification project

Fire PRA Standard Team - Representation

- Writing Group (6)
 - NRC Research and Contractors (Sandia)
 - EPRI Contractor
 - Utility (2)
 - Independent Contractor
- Review Group (6):
 - Vender (GE)
 - NEI
 - NRC/NRR
 - Independent Contractors (2)
 - International (Mitsubishi)

EPRI/NRC Fire PRA Requantification

- ANS Fire PRA Standard will generally refer to the revised Fire PRA methods as “State of the Art”
- ANS Fire Standard outline will mimic the requantification steps, where possible.
- Fire PRA Requantification Project is still in process, and many of the procedures are still being review and revised.
- Many of the ANS Fire Standard Members are also involved with the requantification project.
- Publication scheduled - Fall 2004.